

Attorney Docket No. 1539.1004rec

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tomowaki Takahashi

Application No.: NOT ASSIGNED

Group Art Unit: NOT ASSIGNED

Filed: December 15, 2003

Examiner: NOT ASSIGNED

For: CATADIOPTIC REDUCTION PROJECTION OPTICAL SYSTEM AND EXPOSURE
APPARATUS HAVING THE SAME**INFORMATION DISCLOSURE STATEMENT**Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☐ Copies of IDS citations.
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. ☒ English language translation (Abstract attached to each non-English language publication if indicated) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☒ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☒ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b):*(Check either Item 2a or 2b or 2c or 2d)*

- 2a. ☐ Within three months of the filing date of a national application other than a Continued Prosecution Application under § 1.53(d);
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☒ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)

- 3a. ☐ The §1.97(e) Statement in Item 5 below is applicable; OR
3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

- 4a. ☐ The §1.97(e) Statement in Item 5 below is applicable; AND
4b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

5. ☐ Statement under §1.97(e) *(applicable if Item 3a or Item 4 is checked)*
(Check either Item 5a or 5b)

- 5a. ☐ In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
5b. ☐ In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☒ This is a continuation/divisional/continuation-in-part application under 37 CFR §1.53(b).

(Check appropriate Items 6a and/or 6b)

- 6a. ☒ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. 09/766,486, filed on January 19, 2001, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. §120, have been omitted pursuant to 37 CFR §1.98(d).
6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. ___, filed on ___, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. §120, are provided herewith.

7. ☐ This is a continuation/divisional application under 37 CFR §1.53(d) or Request for Continued Examination under 37 CFR 1.114.

(Check either Item 7a or 7b)

- 7a. ☐ The Issue Fee has not been paid.
 7b. ☐ A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR §1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR §1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.

8. ☐ This is a Supplemental Information Disclosure Statement.

(Check either Item 8a or 8b)

- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR §1.97(f) supplements the Information Disclosure Statement filed on _____. A bona fide attempt was made to comply with 37 CFR §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on _____.
 8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §1.97 and 1.98, mailed _____. (MPEP 609 C(1), Form & 6.49, Rev. 1, Feb. 2000, pp. 600-107)

9. ☒ In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 9a, 9b, 9c and/or 9d)

- 9a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).)
 9b. ☐ set forth in the application.
 9c. ☒ satisfied because an English language translation (Abstract attached to each non-English language publication if indicated) is attached to each non-English language publication.
 9d. ☐ enclosed as Attachment 1(e), hereto.

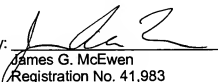
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: DEC 15, 2003
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Telephone: (202) 434-1500
Facsimile: (202) 434-1501

By: 
James G. McEwen
Registration No. 41,983

Sheet 1 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1539.1004rec	APPLICATION NO. 10734133 NOT ASSIGNED
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FIRST NAMED INVENTOR Tomowaki Takahashi	
		FILING DATE December 15, 2003	GROUP ART UNIT 2873 NOT ASSIGNED

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLAS S	FILING DATE
//sjs//	AA	4,779,966	10/1988	Friedman	_____	_____	
//sjs//	AB	5,089,913	2/1992	Singh et al.	_____	_____	
//sjs//	AC	5,592,329	1/1997	Ishiyama et al.	_____	_____	
//sjs//	AD	5,668,673	9/1997	Suenaga et al.	_____	_____	
//sjs//	AE	5,689,377	11/1997	Takahashi	_____	_____	
//sjs//	AF	5,691,802	11/1997	Takahashi	_____	_____	
//sjs//	AG	5,694,241	12/1997	Ishiyama et al.	_____	_____	
//sjs//	AH	5,406,415	4/1995	Kelly	_____	_____	
//sjs//	AI	5,506,684	4/1996	Ota et al.	_____	_____	
//sjs//	AJ	5,515,207	5/1996	Foo	_____	_____	
//sjs//	AK	5,534,970	7/1996	Nakashima et al.	_____	_____	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLAS S	TRANSLATION YES NO
//sjs//	AL	61-156737	7/1986	Japan	_____	_____	Abstract
//sjs//	AM	63-163319	7/1988	Japan	_____	_____	XX
//sjs//	AN	2-66510	3/1990	Japan	_____	_____	Abstract
//sjs//	AO	3-282527	12/1991	Japan	_____	_____	Abstract
//sjs//	AP	4-234722	8/1992	Japan	_____	_____	Abstract
//sjs//	AQ	5-72478	3/1993	Japan	_____	_____	Abstract
//sjs//	AR	0736789A	10/1996	Europe	_____	_____	
//sjs//	AS	19726058A	1/1998	Germany	_____	_____	Abstract
//sjs//	AT	0770895	5/1997	Europe	_____	_____	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

//sjs//	AU	Japanese Publication No. 64-019317 (January 1989) (Abstract Only)
//sjs//	AV	Japanese Publication No. 55-012902 (January 1980) (Abstract only).

EXAMINER /Scott J. Sugarman/	DATE CONSIDERED 02/26/2008
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Sheet 2 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1539.1004rec	APPLICATION NO. 10734133 NOT ASSIGNED
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLAS S	SUB- CLASS	FILING DATE
//sjs//	BA	4,497,015	1/1985	Konno et al.	—	—	
//sjs//	BB	4,666,273	5/1987	Shimizu et al.	—	—	
//sjs//	BC	4,685,777	8/1987	Hirose	—	—	
//sjs//	BD	4,701,035	10/1987	Hirose	—	—	
//sjs//	BF	4,953,960	9/1990	Williamson	—	—	
//sjs//	BG	5,052,763	10/1991	Singh et al.	—	—	
//sjs//	BI	5,194,893	3/1993	Nishi	—	—	
//sjs//	BJ	5,212,593	5/1993	Williamson et al.	—	—	
//sjs//	BK	5,220,454	6/1993	Ichihara et al.	—	—	
//sjs//	BL	5,241,423	8/1993	Chiu et al.	—	—	
//sjs//	BM	5,253,110	10/1993	Ichihara et al.	—	—	
//sjs//	BN	5,333,035	7/1994	Shiraishi	—	—	
//sjs//	BO	5,365,051	11/1994	Suzuki et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
//sjs//	BAA	0243950	11/1997	Europe	—	—	
//sjs//	BBB	58-078115	5/1983	Japan	—	—	Abstract
//sjs//	BCC	63-118115	5/1988	Japan	—	—	Abstract
//sjs//	BDD	4-42208	2/1992	Japan	—	—	Abstract
//sjs//	BEE	4-157412	5/1992	Japan	—	—	Abstract
//sjs//	BFF	5-173065	7/1993	Japan	—	—	Abstract
//sjs//	BGG	07140384	6/1995	Japan	—	—	Abstract
//sjs//	BHH	07140385	6/1995	Japan	—	—	Abstract

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

BII	
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EXAMINER /Scott J. Sugarman/	DATE CONSIDERED 02/26/2008
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Sheet 3 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1539.1004rec	APPLICATION NO. 10/734,133 NOT ASSIGNED
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FIRST NAMED INVENTOR Tomowaki Takahashi	
		FILING DATE December 15, 2003	GROUP ART UNIT 2873 NOT ASSIGNED

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
//sjs//	CA	5,402,267	3/1995	Furter et al.	_____	_____	
//sjs//	CB	5,537,260	7/1996	Williamson	_____	_____	
//sjs//	CC	5,583,696	12/1996	Takahashi	_____	_____	
//sjs//	CD	5,636,066	6/1997	Takahashi	_____	_____	
//sjs//	CE	5,534,970	7/1996	Nakashima, et al.	_____	_____	
//sjs//	CF	5,591,958	1/1997	Nishi et al.	_____	_____	
//sjs//	CG	5,706,137	1/1997	Kelly	_____	_____	
//sjs//	CH	5,742,436	4/1998	Furter	_____	_____	
//sjs//	CI	5,808,805	9/1998	Takahashi	_____	_____	
//sjs//	CJ	5,414,551	5/1995	Okazaki et al.	_____	_____	
//sjs//	CK	4,974,919	12/1990	Muraki et al.	_____	_____	
//sjs//	CL	4,851,978	7/1989	Ichihara	_____	_____	
//sjs//	CM	4,386,828	6/1983	Hirose	_____	_____	
//sjs//	CN	4,592,625	6/1986	Uehara et al.	_____	_____	
//sjs//	CO	5,260,832	11/1993	Togino et al.	_____	_____	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	CP						
	CQ						
	CR						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER /Scott J. Sugarman/	DATE CONSIDERED 02/26/2008
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Sheet 4 of 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1539.1004rec	APPLICATION NO. 10/734,133 NOT ASSIGNED
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		FILING DATE December 15, 2003	GROUP ART UNIT 2873 NOT ASSIGNED

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
//sjs//	DA	5,448,408	9/1995	Togino et al.	_____	_____	
//sjs//	DB	3,504,961	4/1970	Hoogland et al.	_____	_____	
//sjs//	DC	3,737,215	6/1973	De Jager	_____	_____	
//sjs//	DE	3,897,138	7/1975	Kano	_____	_____	
//sjs//	DF	3,909,115	9/1975	Kano	_____	_____	
//sjs//	DG	3,955,883	5/1976	Sugiyama	_____	_____	
//sjs//	DH	4,080,048	3/1978	Kimura	_____	_____	
//sjs//	DI	4,770,477	5/1988	Shafer	_____	_____	
//sjs//	DJ	5,323,263	6/1994	Schoemakers	_____	_____	
//sjs//	DK	4,812,028	3/1989	Matsumoto	_____	_____	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
//sjs//	DL	0712019	5/1996	Europe	_____	_____	
//sjs//	DM	0717299	6/1996	Europe	_____	_____	
//sjs//	DN	47-35017	9/1972	Japan	_____	_____	X
//sjs//	DO	6-313845	11/1994	Japan	_____	_____	Abstract
//sjs//	DP	93/04391	3/1993	WIPO	_____	_____	
//sjs//	DQ	58-04112	1/1983	Japan	_____	_____	Abstract
//sjs//	DR	05-173065	7/1993	Japan	_____	_____	Abstract

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER /Scott J. Sugarman/	DATE CONSIDERED 02/26/2008
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

ATTACHMENT 1(f)

LIST OF COPENDING APPLICATIONS	ATTORNEY DOCKET NO.	APPLICATION NO.
	1539.1004rec	10734133
	FIRST NAMED INVENTOR	NOT ASSIGNED
	Tomowaki Takahashi	
	FILING DATE	GROUP ART UNIT
	December 15, 2003	2873
		NOT ASSIGNED

The following, prior-filed, copending U.S. patent application(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. A copy of the identified copending application(s) is provided pursuant to 37 CFR 1.98(a)(2)(iii), unless domestic priority thereto has been claimed under 35 USC §120, 37 CFR §1.98(d) or where copies have been provided in the parent application.

It is requested that the Examiner acknowledge his consideration of application(s) below-listed by initialing same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

*EXAMINER INITIAL		U.S. SERIAL NO.	FILING DATE	NAME	ASSIGNEE	Domestic Priority Claimed?
//sjs//	1	09/659,376	9/8/2000	Toshihiro Sasaya, et al.	Nikon Corporation, Japan	No
//sjs//	2	09/665,184	9/15/2000	Tomowaki Takahashi	Nikon Corporation, Japan	No
//sjs//	3	09/764,157	1/19/2001	Tomowaki Takahashi	Nikon Corporation, Japan	No
//sjs//	4	09/709,518	11/13/2000	Hitoshi Matsuzawa, et al.	Nikon Corporation, Japan	No
//sjs//	5	09/659,375	9/8/2000	Tomowaki Takahashi	Nikon Corporation, Japan	No

EXAMINER /Scott J. Sugarman/	DATE CONSIDERED 02/26/2008
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

ATTACHMENT 1(g)

LIST OF ADDITIONAL SUBMITTED DOCUMENTS	ATTORNEY DOCKET NO.	APPLICATION NO.
	1539.1004rec	10/734,133 NOT ASSIGNED
	FIRST NAMED INVENTOR	
	Tomowaki Takahashi	
	FILING DATE	GROUP ART UNIT
	December 15, 2003	2873 NOT ASSIGNED

The following document(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. Pursuant to 37 CFR 1.98(a)(2)(iii), a copy of any identified copending application(s) is provided.

It is requested that the Examiner acknowledge his consideration of document(s) below-listed by initialing same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
//sjs//	AA	2001/0040722 A1	11/15/2001	Shafer et al.	_____	_____	
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO	
	AD							
	AE							

EXAMINER	/Scott J. Sugarman/	DATE CONSIDERED	02/26/2008
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			